

29 Aug 1990

DE3NN-B

DETECTOR, FIXED, WAVEGUIDE

1. GENERAL. This procurement requires a K-band crystal detector.

2. CLASSIFICATION. Type II, Class 5, Style E, and Color R in accordance with MIL-T-28800 for shipboard applications. Electromagnetic interference requirements are not invoked.

3. OPERATIONAL REQUIREMENTS. The equipment shall operate within the minimum ranges and accuracies specified below.

3.1 Frequency range. 18.0 to 26.5 GHz.

3.2 Frequency response. ± 0.6 dB.

3.3 Low level sensitivity. 0.5 mV/uW.

3.4 SWR. 1.78 maximum.

3.5 Maximum input. 100 mW.

3.6 Waveguide. WR-42.

3.7 Flange. UG-595/U.

3.8 Output connector. BNC(f).

4. GENERAL REQUIREMENTS.

4.1 Power source. MIL-T-28800 power source requirements are not invoked.

4.2 Weight. 0.23 kg (0.5 lb) maximum.

4.3 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

4.4 Calibration interval. 12 months minimum. End-of-interval confidence factor: 72%.